PLEASE AMEND THIS APPLICATION AS FOLLOWS:

In the Claims:

Add new claims 506-531 as follows:

-- 506. (NEW) A polynucleotide sequence covalently attached to an antibody. --

-- 507. (NEW) The polynucleotide sequence of claim 506, wherein said antibody is monoclonal. --

-- 508. (NEW) A polynucleotide sequence covalently attached to a lectin. --

-- 509. (NEW) A polynucleotide sequence covalently attached to a saccharide having up to 20 saccharide units. --

-- 510. (NEW) A polynucleotide sequence covalently attached to a receptor. --

-- 511. (NEW) A polynucleotide sequence covalently attached to a hormone. --

-- 512. (NEW) A DNA molecule carrying a polynucleotide portion which comprises a sequence selected from the group consisting of poly dGT, poly dAC, poly dCT, poly dAT, poly dGC, poly dGA, poly dG, poly dC, poly dT, poly dA, and a sequence or segment of repeating low complexity. --

-- 513. (NEW) A filamentous phage containing the DNA molecule of claim 512. --

-- 514. (NEW) The phage of claim 513, comprising a M13 phage or a M13 phage variant. --

-- 515. (NEW) The DNA molecule of claim 512, wherein said sequence is an oligonucleotide. --

-- 516. (NEW) The DNA molecule of claim 512, further carrying a polynucleotide sequence complementary to a gene sequence or portion thereof of a nucleic acid-containing organism. --

-- 517. (NEW) The DNA molecule of claim 516, wherein said organism is selected from the group consisting of a virus, a prokaryotic cell and a eukaryotic cell. --

-- 518. (NEW) The DNA molecule of claim 517, wherein said prokaryotic cell is a bacterium. --

-- 519. (NEW) The DNA molecule of claim 517, wherein said eukaryotic cell is a mammalian cell. --

-- 520. (NEW) A filamentous phage containing the DNA molecule of claim 516. --

-- 521. (NEW) The filamentous phage of claim 520, comprising a M13 phage or a M13 phage variant. --

-- 522. (NEW) A circular DNA molecule covalently attached to a non-radiolabeled signal generating moiety. --

-- 523. (NEW) A filamentous phage containing the circular DNA molecule of claim 522. --

-- 524. (NEW) The DNA molecule of claim 522, further carrying a polynucleotide portion which comprises a sequence selected from the group consisting of poly dGT, poly dAC, poly dCT, poly dAT, poly dGC, poly dGA, poly dG, poly dC, poly dT, poly dA, and a sequence or segment of repeating low complexity. --

-- 525. (NEW) The circular DNA molecule of claim 522, which carries a polynucleotide portion which is rich in cytosine residues. --

-- 526. (NEW) The DNA molecule of claim 524, wherein said sequence is an oligonucleotide. --

-- 527. (NEW) The DNA molecule of claim 522, further carrying a polynucleotide portion which comprises a sequence coding for part or whole of a gene. --

-- 528. (NEW) The DNA molecule of claim 522, wherein said signal generating moiety comprises an enzyme. --

-- 529. (NEW) The DNA molecule of claim 527, wherein said signal generating moiety comprises a biotin moiety. --

-- 530. (NEW) The DNA molecule of claim 527, wherein said signal generating moiety comprises an antibody. --

-- 531. (NEW) The DNA molecule of claim 527, wherein said signal generating moiety comprises a fluorogenic compound. --

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